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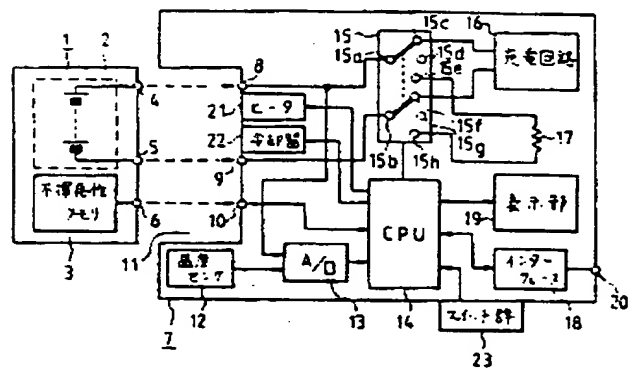
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TITLE : BATTERY DEVICE WITH  
NON-VOLATILE MEMORY



**ABSTRACT :** PURPOSE: To predict the service life of a battery, by performing the automatic measurement of the number of times of charging and a discharging characteristic, etc., calculating and displaying the capacity of the battery based on those data, and storing the data of the discharging characteristic and the capacity in a non-volatile memory at a battery side, in case of housing the battery in a housing space.

**CONSTITUTION:** The data of the number of times of charging stored in the non-volatile memory 3 is read out, and a prescribed load 17 is connected to a battery pack 1 when the data of the number of times of charging shows a prescribed number. In such state, the terminal voltage of the battery pack 1 is measured at a prescribed period, and such measurement is continued until the terminal voltage goes less than a reference value, and at a time when the terminal voltage drops less than the reference value, the prescribed load 17 is separated, and also, the capacity of the battery pack 1 is computed from measured data, and the measured data and the capacity are written on the non-volatile memory 3. In such a way, it is possible to predict the service life of the battery easily, and to use the battery economically and efficiently.

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